

BEST AVAILABLE COPY**REMARKS****1. Objection to the disclosure because of informalities:**

5 Regarding the informality in paragraph [0002] of the specification, "anacceleration" has been revised to "an acceleration". This amendment corrects a document file transfer error; and no new matter is introduced. Consideration of this amendment to the specification is requested.

10 Regarding the informality in paragraph [0004] of the specification, "anacceleration" has been revised to "an acceleration", "piezoresistiveacceleration" has been revised to "piezoresistive acceleration", and "piezoelectricacceleration" has been revised to "piezoelectric acceleration". The above amendments correct document
15 file transfer errors, and no new matter is introduced. Consideration of these amendment to the specification is requested.

 Regarding the informality in paragraph [0005] of the specification, "micromachiningtechnology" has been revised to "micromachining
20 technology". This amendment corrects a document file transfer error, and no new matter is introduced. Consideration of this amendment to the specification is requested.

 Regarding the informality in paragraph [0007] of the specification,
25 "control circuit 22" has been revised to "control circuit 24". This amendment corrects a typographical error, and no new matter is introduced. Consideration of this amendment to the specification is requested.

30 **2. Objection to the drawings:**

 Fig.1 and Fig.2 are amended to respectively label the block elements

24 and 46 using an appropriate legend. Furthermore, Fig.3 is now added to show the flexible printed circuit board recited in claim 20 and the thin film transistor display region recited in claims 10 and 21. No new matter is introduced by the above amendments. Consideration of the proposed amendment to the drawings is politely requested.

3. Objection to claim 8 under 37 CFR 1.75(c):

Claim 8 has been cancelled.

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4. Rejection of claims 10 and 19-21 under 35 U.S.C. 112:

Fig.3 is added to show the thin film transistor display region recited in claims 10 and 21 and the flexible printed circuit board recited in claim 20. In addition, "a variation of pressure" has been revised to "a variation" in claims 10 and 21. The amendment made to claims 10 and 21 finds support in the specification, paragraph [0018]. Claim 20 has been amended in full accordance with amended claim 11. The amendment made to claim 20 finds support in the specification, paragraph [0018]. Claim 19 has been cancelled. No new matter is introduced by the above amendments. Reconsideration of claims 10 and 20-21 is politely requested.

5. Rejection of claims 11 and 14-15 under 35 U.S.C. 102(b) as being clearly anticipated by Corkum et al.:

Claim 11 is amended to overcome this rejection. Specifically, the limitation of "a thin film transistor control circuit positioned on the insulating substrate and electrically connected to the plate capacitor" is added. This amendment is fully supported in the specification, such as in paragraph [0017]. No new matter is entered.

Regarding US 5,7924,954, Corkum discloses a condition responsive sensor substantially comprising a substrate 12, electrically conductive sensor elements 14, and conditioning electronics 12e.

- 5 In contrast to Corkum's teaching, the present application, as recited in the amended claim 11, discloses an acceleration sensor comprising:
- an insulating substrate;
 - a cantilever beam structure positioned on the insulating substrate having a movable section, the movable section comprising a
 - 10 movable electrode;
 - a stationary electrode positioned on the insulating substrate and opposite to the movable section of the cantilever beam structure, the stationary electrode and the movable electrode constituting a plate capacitor; and
 - 15 a thin film transistor control circuit positioned on the insulating substrate and electrically connected to the plate capacitor.

Although US 5,7924,954 discloses a condition responsive sensor having conditioning electronics 12e, Corkum fails to teach or suggest

20 the limitation of "thin film transistor control circuit". Thus, claim 11 includes a novel and unobvious limitation over Corkum's teaching. Claims 14 and 15 are dependent on claim 11 and should be allowed if claim 11 is allowed.

25 Reconsideration of amended claim 11 and claims 14-15 is requested.

6. Rejection of claim 12 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Horibata et al.:

30 Claim 12 is dependent on claim 11 and should be allowed if claim 11 is allowed. Reconsideration of claim 12 is therefore politely requested.

7. Rejection of claim 13 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Pierre et al. or Cahill et al.:

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Claim 13 is dependent on claim 11 and should be allowed if claim 11 is allowed. Reconsideration of claim 13 is politely requested.

8. Rejection of claim 17 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Nakatani et al.:

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Claim 17 is dependent on claim 11 and should be allowed if claim 11 is allowed. Reconsideration of claim 17 is politely requested.

9. Objection to claims 16 and 18 as being dependant upon a rejected base claim:

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Claims 16 and 18 would be allowable if rewritten in independent form to include all limitations of the base claim and any intervening claims. The applicant notes this allowance, and believes the limitation "thin film transistor control circuit" amended to claim 11 suffices for differentiating from the cited prior art. Claims 16 and 18 have been amended in accordance with the amendment of claim 11. No new matter is entered. Thus, reconsideration of amended claims 16 and 18 is requested in view of the amendments made to claim 11.

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Sincerely,

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9/24/2004

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